Figures

Fig. 1

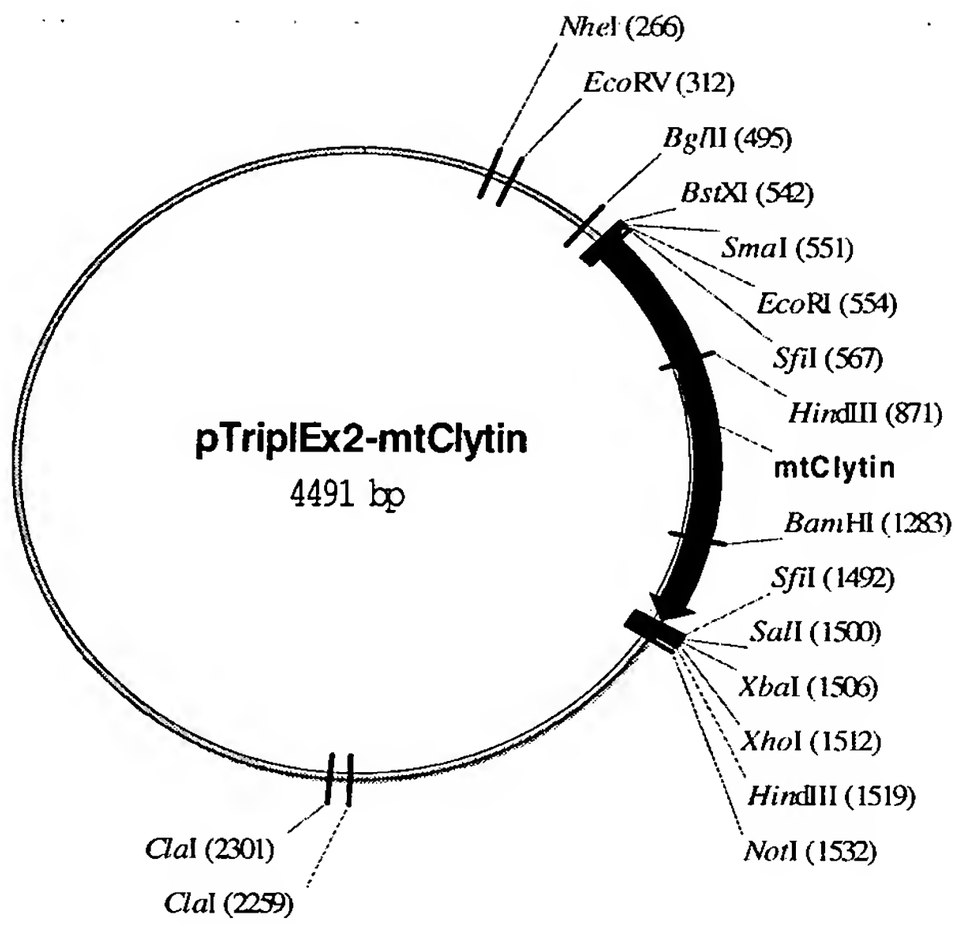
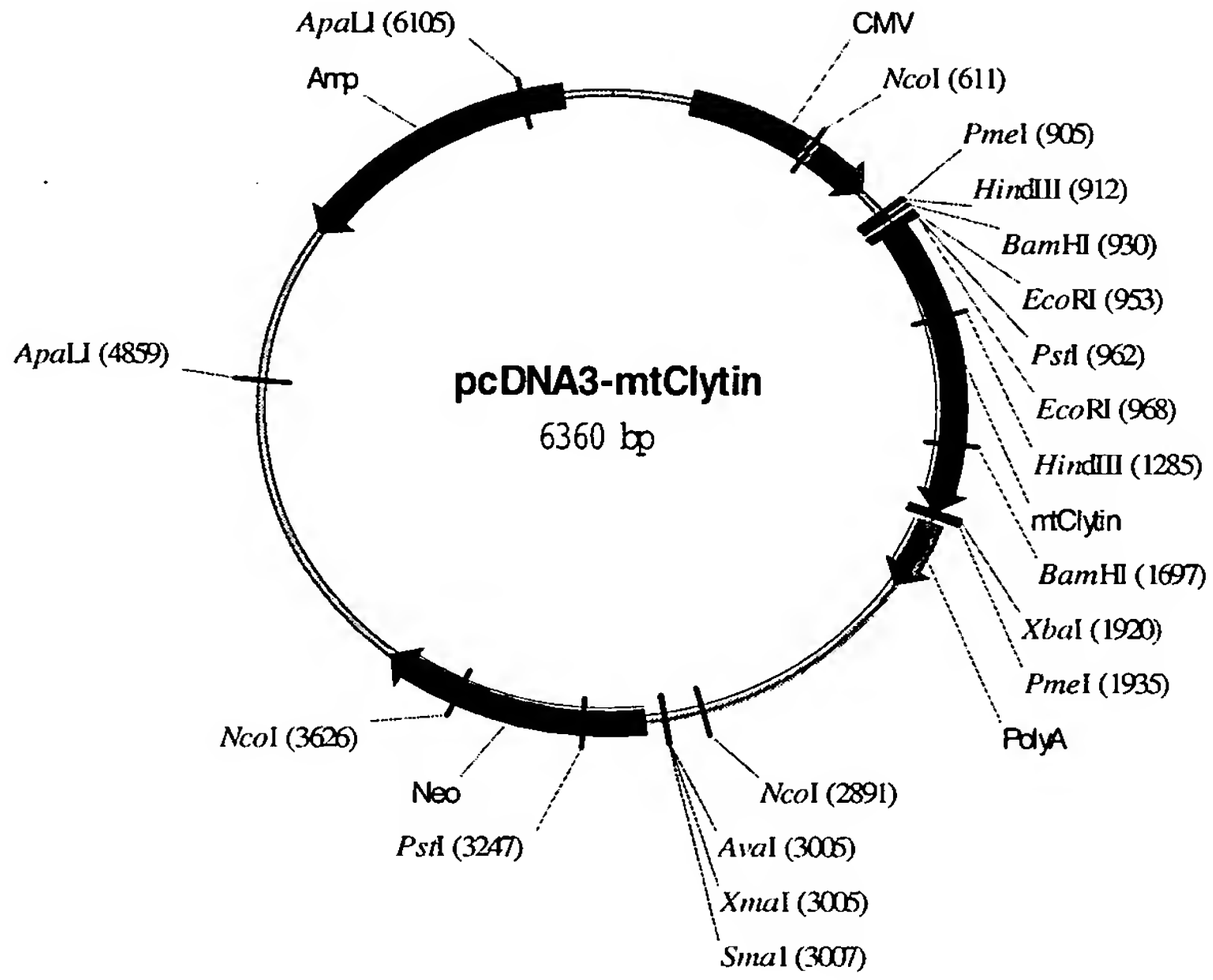


Fig. 2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Amp
CMV
NcoI (611)
PmeI (905)
HindIII (912)
BamHI (930)
EcoRI (953)
PstI (962)
EcoRI (968)
HindIII (1285)
mtClytin
BamHI (1697)
XbaI (1920)
PmeI (1935)
PolyA
ApaLI (4859)
pcDNA3-mtClytin
6360 bp
NcoI (3626)
Neo
PstI (3247)
NcoI (2891)
AvaI (3005)
XmaI (3005)
SmaI (3007)

Fig. 3

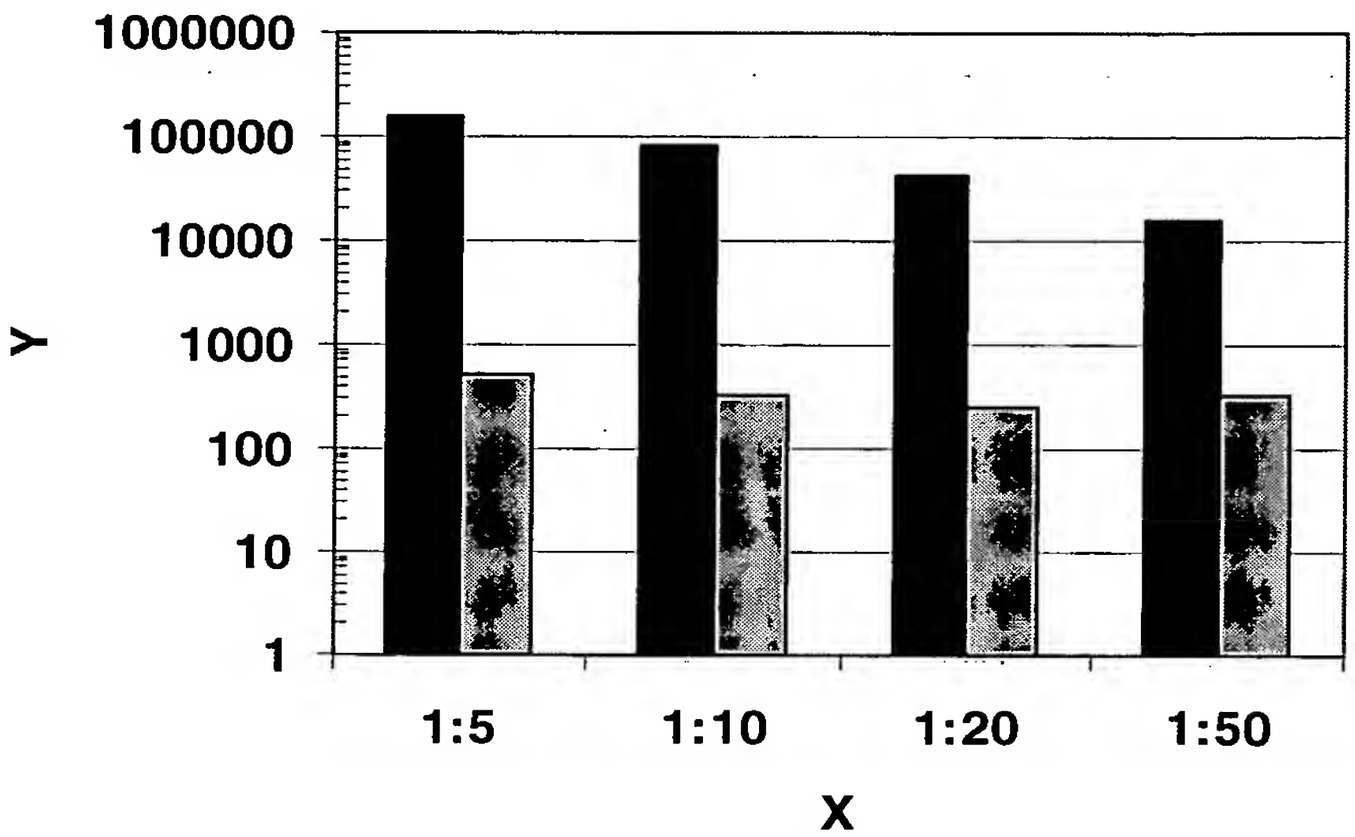
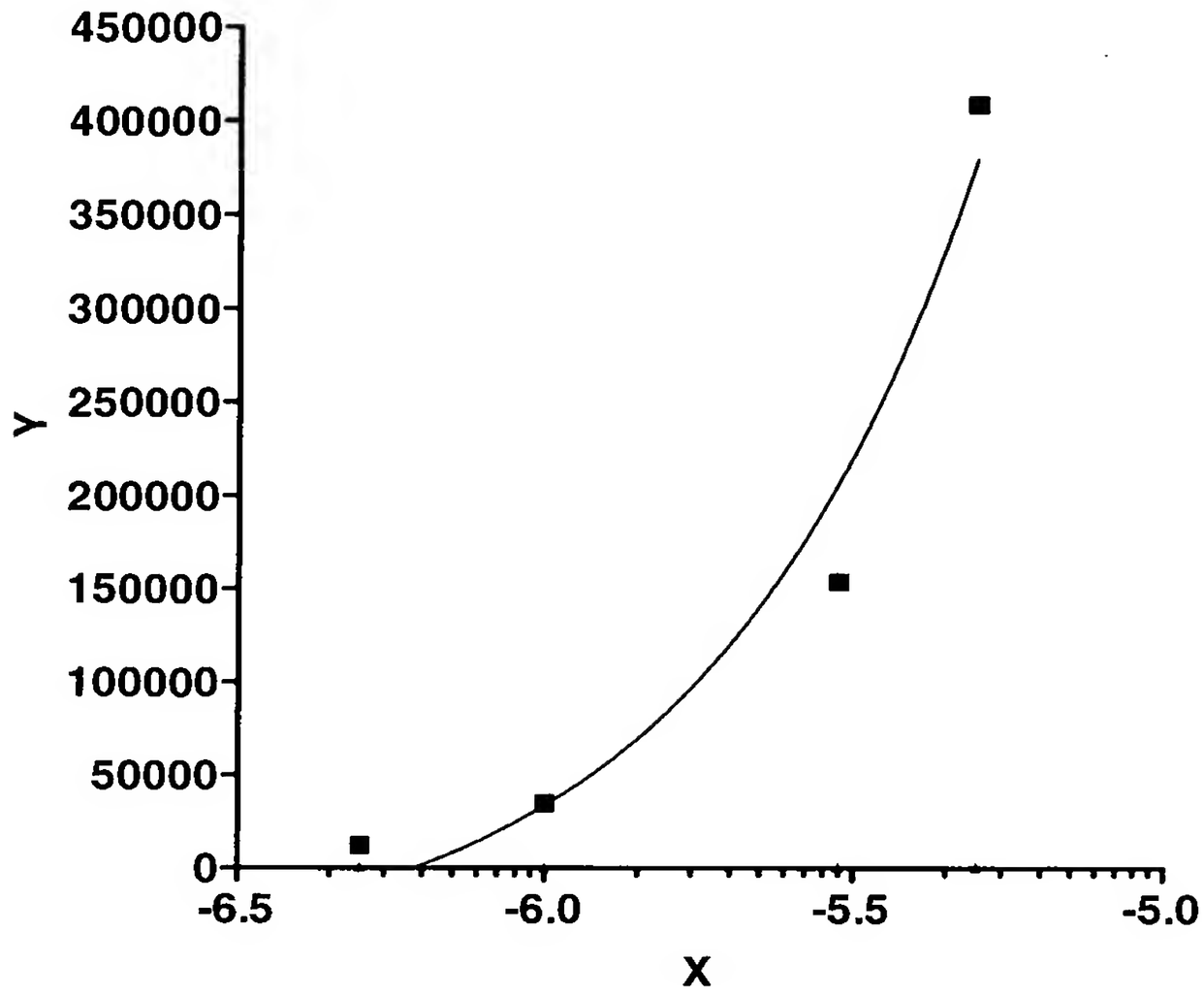


Fig. 4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300000
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200000
150000
100000
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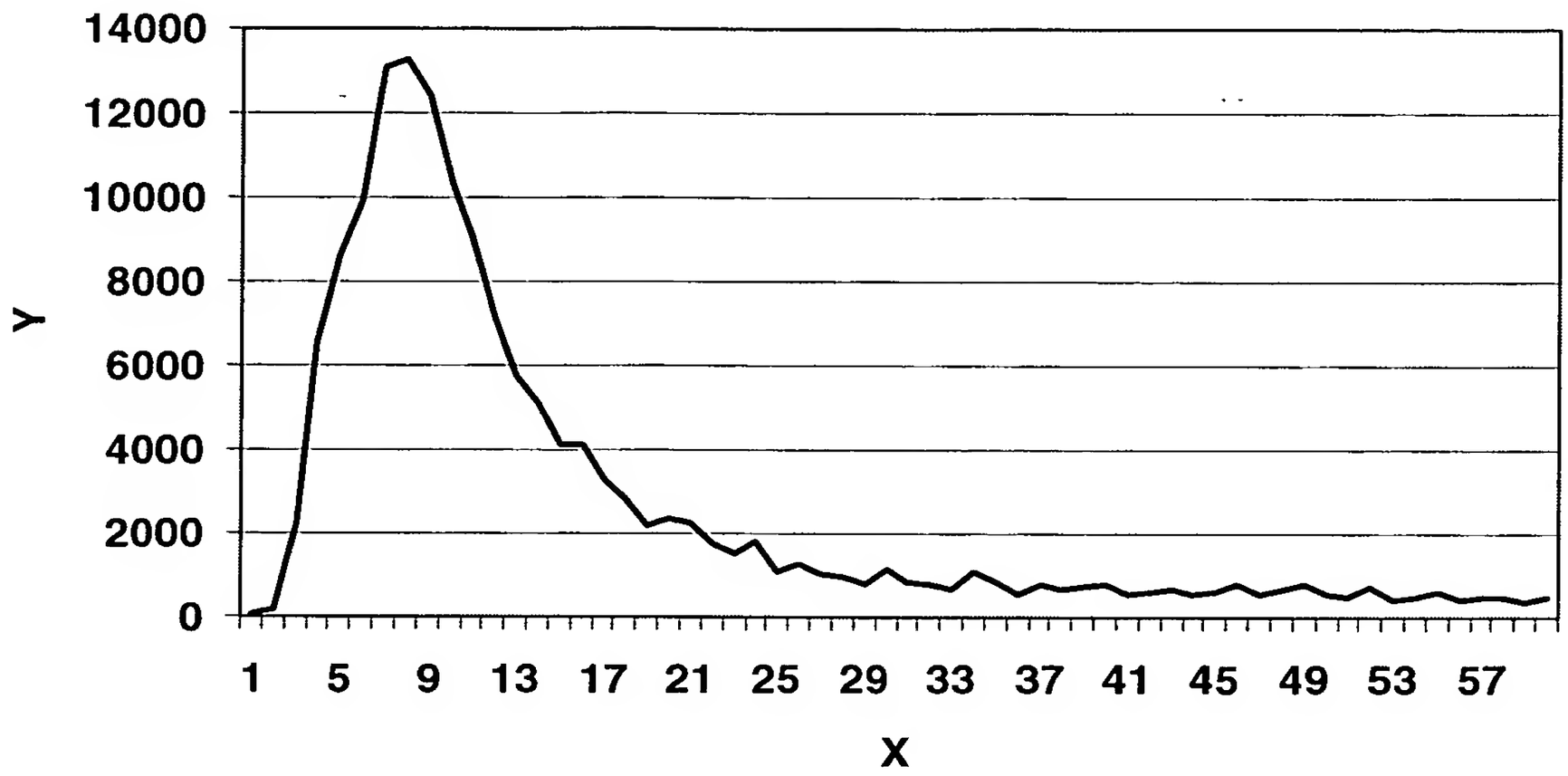
-6.0
-5.5
-5.0
X

Fig. 5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8000
6000
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9
13
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29
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37
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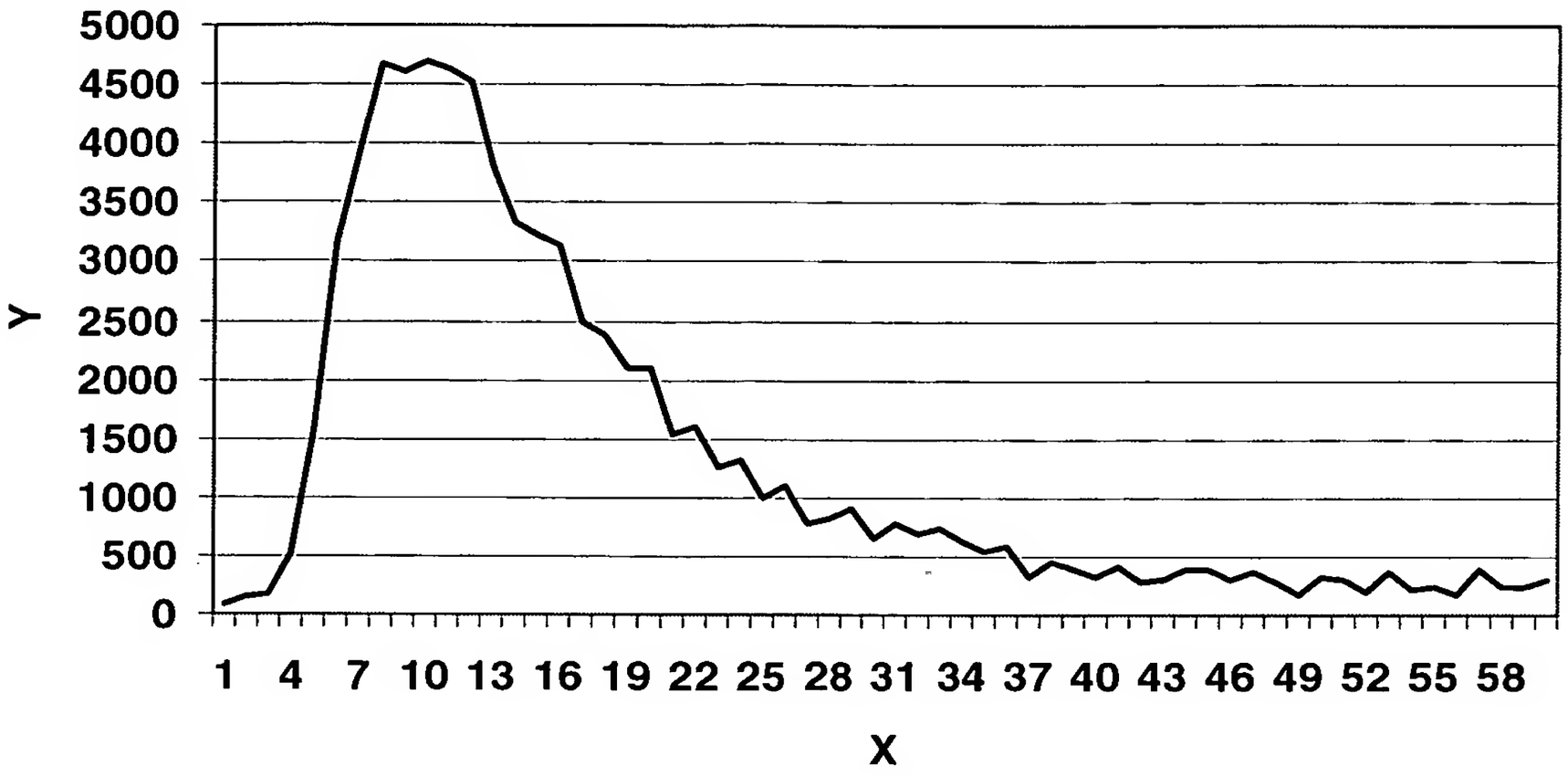
45
49
53
57
X

Fig. 6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4000
3500
3000
2500
2000
1500
1000
500
0
Y
1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 46 49 52 55 58
X

Fig. 7

```
1                                                   50
Clytin      .......... .......... .......... .......... ..........
mtClytin    GACAGATAAA AAATTCACTC CTTAGATTAT TTAGTGAATA AGAGAAAAAA

            51                                                  100
Clytin      .......... .......... .......... .......... ..........
mtClytin    AGGATAAGAA ATCAAGATGC AAAGGTTTAC AAATCGTCTT CTTTCCATGT

            101                                                 150
Clytin      .......... ......ATCA ACTTTTGCAA CTCAAAGCAA ATTTCAAAAC
mtClytin    CGGCTTTACG TGCAAGATCA AGATT.GCAA CGCACGGCAA ATTTTCACAC

            151                                                 200
Clytin      TTCAACATGG CTGAC.ACTG CATCAAAATA CGCCGTCAAA CTCAGACCCA
mtClytin    CAGCATACTC TTGGCTACAG ATTCAAAATA CGCGGTCAAA CTCGATCCTG

            201                                                 250
Clytin      ACTTCGACAA CCCAAAATGG GTCAACAGAC ACAAATTTAT GTTCAACTTT
mtClytin    ATTTTGCAAA TCCAAAATGG ATCAACAGAC ACAAATTTAT GTTCAACTTT

            251                                                 300
Clytin      TTGGACATTA ACGGCGACGG AAAAATCACT TTGGATGAAA TCGTCTCCAA
mtClytin    TTGGACATAA ACGGTAAGGG GAAAATCACA TTAGATGAAA TCGTCTCCAA

            301                                                 350
Clytin      AGCTTCGGAT GACATTTGCG CCAAACTTGG AGCAACACCA GAACAGACCA
mtClytin    AGCTTCAGAC GACATTTGTG CTAAACTGGA TGCAACACCA GAACAGACCA

            351                                                 400
Clytin      AACGTCACCA GGATGCTGTC GAAGCTTTCT TCAAAAAGAT TGGTATGGAT
mtClytin    AACGTCACCA GGATGCTGTT GAAGCCTTTT TCAAGAAAAT GGGCATGGAT

            401                                                 450
Clytin      TATGGTAAAG AAGTCGAATT CCCAGCTTTT GTTGATGGAT GGAAAGAACT
mtClytin    TATGGTAAAG AAGTTGCATT CCCAGAATTT ATTAAGGGAT GGGAAGAGTT

            451                                                 500
Clytin      GGCCAATTAT GACTTGAAAC TTTGGTCTCA AAACAAGAAA TCTTTGATCC
mtClytin    GGCCGAACAC GACTTGGAAC TCTGGTCTCA AAACAAAAGT ACATTGATCC

            501                                                 550
Clytin      GCGACTGGGG AGAAGCTGTT TTCGACATTT TTGACAAAGA CGGAAGTGGC
mtClytin    GTGAATGGGG AGATGCTGTT TTCGACATTT TCGACAAAGA CGCAAGTGGC
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           551                                                       600
Clytin     TCAATCAGTT TGGACGAATG GAAGGCTTAT GGACGAATCT CTGGAATCTG
mtClytin   TCAATCAGTT TAGACGAATG GAAGGCTTAC GGACGAATCT CTGGAATCTG

           601                                                       650
Clytin     CTCATCAGAC GAAGACGCCG AAAAGACCTT CAAACATTGC GATTTGGACA
mtClytin   TCCATCAGAC GAAGACGCTG AGAAGACGTT CAAACATTGT GATTTGGACA

           651                                                       700
Clytin     ACAGTGGCAA ACTTGATGTT GATGAGATGA CCAGACAACA TTTGGGATTC
mtClytin   ACAGTGGCAA ACTTGATGTT GATGAGATGA CCAGGCAACA TTTAGGCTTC

           701                                                       750
Clytin     TGGTACACCT TGGACCCCAA CGCTGATGGT CTTTACGGCA ATTTTGTTCC
mtClytin   TGGTACACAT TGGATCCAAC TTCTGATGGT CTTTATGGCA ATTTTGTTCC

           751                                                       800
Clytin     TTAAACATCG ...AAACAAA AGCCCAAAAG AAGTTTTGGA AGAATTATTT
mtClytin   CTAAGAAGCG TTCAGTTAAA AACGCTAAAC ATTGTTCAGT TGTAAAATTA

           801                                                       850
Clytin     GATAC..TAT CATTTG.... ..TTACTATT TCGTAACATG CT..ATATTT
mtClytin   TATTCATTTT CATTTCGTAA AATTAGTATT TATAAATTTG TATCATAAAT

           851                                                       900
Clytin     TGTAAC.ATG CTATATT.TA AATAATTTT. ..........  ..........
mtClytin   TGTATCCATG TTGTAGACTA AATAAGACTC GGCAAAAAAA AAAAAAAAAA

           901          913
Clytin     .......... ...
mtClytin   AAAAAAAAAA AAA
```

Fig. 8

```
           1                                                  50
mtClytin   MQRFTNRLLS MSALRARSRL QRTANFHTSI LLATDSKYAV KLDPDFANPK
Clytin     .......... .......... .......... MADTASKYAV KLRPNFDNPK

           51                                                 100
mtCyltin   WINRHKFMFN FLDINGKGKI TLDEIVSKAS DDICAKLDAT PEQTKRHQDA
Clytin     WVNRHKFMFN FLDINGDGKI TLDEIVSKAS DDICAKLGAT PEQTKRHQDA

           101                                                150
Clytin     VEAFFKKMGM DYGKEVAFPE FIKGWEELAE HDLELWSQNK STLIREWGDA
Clytin     VEAFFKKIGM DYGKEVEFPA FVDGWKELAN YDLKLWSQNK KSLIRDWGEA

           151                                                200
Clytin     VFDIFDKDAS GSISLDEWKA YGRISGICPS DEDAEKTFKH CDLDNSGKLD
Clytin     VFDIFDKDGS GSISLDEWKA YGRISGICSS DEDAEKTFKH CDLDNSGKLD

           201                          228
mtClytin   VDEMTRQHLG FWYTLDPTSD GLYGNFVP
Clytin     VDEMTRQHLG FWYTLDPNAD GLYGNFVP
```

Fig. 9

```
1                                                    50
mtClytin   MQRFTNRLLS MSALRARSRL QRTANFHTSI LLATDSKYAV KLDPDFANPK
clytin-2   .......... .......... .......... MTDTASKYAV KLKTNFEDPK
  Clytin   .......... .......... .......... MADTASKYAV KLRPNFDNPK

           51                                                 100
mtClytin   WINRHKFMFN FLDINGKGKI TLDEIVSKAS DDICAKLDAT PEQTKRHQDA
clytin-2   WVNRHKFMFN FLDINGNGKI TLDEIVSKAS DDICAKLGAT PAQTQRHQEA
  Clytin   WVNRHKFMFN FLDINGDGKI TLDEIVSKAS DDICAKLGAT PEQTKRHQDA

           101                                                150
mtClytin   VEAFFKKMGM DYGKEVAFPE FIKGWEELAE HDLELWSQNK STLIREWGDA
clytin-2   VEAFFKKIGL DYGKEVEFPA FVNGWKELAK HDLKLWSQNK KSLIRNWGEA
  Clytin   VEAFFKKIGM DYGKEVEFPA FVDGWKELAN YDLKLWSQNK KSLIRDWGEA

           151                                                200
mtClytin   VFDIFDKDAS GSISLDEWKA YGRISGICPS DEDAEKTFKH CDLDNSGKLD
clytin-2   VFDIFDKDGS GSISLDEWKT YGGISGICPS DEDAEKTFKH CDLDNSGKLD
  Clytin   VFDIFDKDGS GSISLDEWKA YGRISGICSS DEDAEKTFKH CDLDNSGKLD

           201                              228
mtClytin   VDEMTRQHLG FWYTLDPTSD GLYGNFVP
clytin-2   VDEMTRQHLG FWYTLDPNAD GLYGNFVP
  Clytin   VDEMTRQHLG FWYTLDPNAD GLYGNFVP
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